

### Claims

1. Self-adhesive protective sheet for the temporary protection of fresh paint surfaces of vehicles such as cars and freshly painted vehicle parts, having a backing comprising a thermoplastic film, preferably of polyolefins, and a self-adhesive layer of butyl rubber, the isoprene content of the butyl rubber being up to 1.8 mole per cent, preferably up to 1.2 mole per cent.
2. Self-adhesive protective sheet according to Claim 1, characterized in that the butyl rubber is a *starbranched* type and/or contains pendant double bonds.
3. Self-adhesive protective sheet according to Claim 1 or 2, characterized in that the self-adhesive layer is blended with one or more additives such as tackifiers, plasticizers, organic or inorganic fillers, pigments, light stabilizers, preferably in the form of UV-absorbing sterically hindered amines (HALS), ageing inhibitors, preferably in the form of lactones, primary and secondary antioxidants, crosslinking agents and/or crosslinking promoters.
4. Self-adhesive protective sheet according to at least one of Claims 1 to 3, characterized in that the self-adhesive layer is blended with elastomers such as polyisobutylenes, polyolefin copolymers such as EPM or EPDM, polybutenes, hydrogenated block copolymers of styrene and dienes or acrylate copolymers, the elastomers being used preferably in the range from 0 to 20 parts by weight, more preferably below 10 parts by weight, per 100 parts by weight of butyl rubber.
5. Self-adhesive protective sheet according to at least one of the preceding claims, characterized in that the coatweight of the self-adhesive layer on the backing film is between 3 and 35 g/m<sup>2</sup>, preferably between 8 and 20 g/m<sup>2</sup>.
6. Self-adhesive protective sheet according to at least one of the preceding claims, characterized in that the backing film is composed of polyolefins, such as polyethylene, polypropylene and also mixtures or copolymers thereof.
7. Self-adhesive protective sheet according to at least one of the preceding claims,

characterized in that further polyolefin copolymers are added to the backing film, such as copolymers of ethylene and  $\alpha$ -olefins such as 1-butene, 1-hexene, 1-octene, ethylene-styrene copolymers, ethylene with polar comonomers such as acrylic acid, and copolymers of propylene with  $\alpha$ -olefins, such as ethylene, 1-butene, 1-hexene and 1-octene.

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8. Self-adhesive protective sheet according to at least one of the preceding claims, characterized in that the thickness of the backing layer is between 20 and 80  $\mu\text{m}$ , including where appropriate an adhesion promoter layer located between the backing layer and the adhesive layer.

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9. Self-adhesive protective sheet according to at least one of the preceding claims, characterized in that the backing layer comprises at least one light stabilizer in an amount of at least 0.15% by weight and/or titanium dioxide, preferably in an amount of from 5 to 15% by weight.

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10. Self-adhesive protective sheet according to at least one of the preceding claims, characterized in that the UV transmittance of the protective sheet in the wavelength region from 290 to 360 nm is below 1%.

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11. Use of a protective sheet according to at least one of the preceding claims, on freshly painted surfaces of cars or car parts as assembly protection or transit protection.

12. Use of a protective sheet according to at least one of the preceding claims for protecting sensitive paint, metal, plastic or glass surfaces.

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